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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/576,976	07/17/2006	Takayuki Takahagi	127804	8155
25944 OLIFF & BERI	7590 10/08/200 RIDGE, PLC	EXAMINER		
P.O. BOX 3208	350	PARVINI, PEGAH		
ALEXANDRIA, VA 22320-4850			ART UNIT	PAPER NUMBER
			1793	
			MAIL DATE	DELIVERY MODE
			10/08/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/576,976	TAKAHAGI ET AL.			
Office Action Summary	Examiner	Art Unit			
	PEGAH PARVINI	1793			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w.  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on <u>24 Ar</u>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 1-13 is/are pending in the application.  4a) Of the above claim(s) 4-8 and 10-13 is/are versions.  5) Claim(s) is/are allowed.  6) Claim(s) 1-3 and 9 is/are rejected.  7) Claim(s) is/are objected to.  8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examinet 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or is/are.	withdrawn from consideration. r election requirement. r. epted or b) □ objected to by the E				
Replacement drawing sheet(s) including the correcti		, ,			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date See Continuation Sheet	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

 $Continuation of Attachment(s) \ 3). \ Information \ Disclosure \ Statement(s) \ (PTO/SB/08), \ Paper \ No(s)/Mail \ Date : 20080909, 20080422, 20070523, 20061002, 20060717.$ 

Art Unit: 1793

## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-3 and 9, drawn to a liquid composition.

Group II, claim(s) 4, and 10-11, drawn to a low dielectric constant film.

Group III, claim(s) 5, drawn to an electronic component.

Group IV, claim(s) 6, and 12-13, drawn to an abrasive.

Group V, claim(s) 7-8, drawn to a method of producing a liquid composition.

The inventions listed as Groups I, II, III, IV, and V do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The technical feature which is common among all groups is a liquid composition comprising at least diamond particles, a dispersant, and an amine substance which are all taught by US Patent Application Publication No. 2003/0038110 in paragraph [0010].

During a telephone conversation with Chaning Mahatan (on behalf of Joe Armstrong) on September 22, 2008 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-3 and 9. Affirmation of this election must be made by applicant in replying to this Office action. Claims 4-8 and 10-13 are withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

The examiner has required restriction between product and process claims.

Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during

in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

<u>Claims 1-3 and 9</u> are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent Application Publication No. 2003/0038110 to Bachrach et al.

Bachrach et al., chemical mechanical etching, teach a slurry of abrasive particulates such as diamond in a liquid wherein the liquid may be water and that amine gallates are added to the slurry as well ([0010]).

With reference to the boiling point of the amine substance, even though the reference may not disclose the property recited in claim 2, the reference discloses a substantially identical composition, and identical compositions cannot have mutually exclusive properties. Therefore, the claimed property is assumed to be inherent to the composition of the reference. See MPEP § 2112.01.

<u>Claims 1-3 and 9</u> are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 6,287,449 to Horie et al.

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Horie et al. teach a liquid slurry containing water, abrading particles such as diamond powders, and alkanol amine (column 2, lines 38-53).

With reference to the boiling point of the amine substance, even though the reference may not disclose the property recited in claim 2, the reference discloses a substantially identical composition, and identical compositions cannot have mutually exclusive properties. Therefore, the claimed property is assumed to be inherent to the composition of the reference. See MPEP § 2112.01.

Claims 1-3 and 9 are rejected under 35 U.S.C. 102(b) as being anticipated by JP 61-218680 to Fumihide et al. (app. cited).

Fumihide et al. teach liquid for polishing wherein said liquid comprises diamond abrasive grains dispersed in a dispersion medium composed of water and a water-soluble polymer containing an essential constituent component comprising an amino group (Abstract).

With reference to the boiling point of the amine substance, even though the reference may not disclose the property recited in claim 2, the reference discloses a substantially identical composition, and identical compositions cannot have mutually exclusive properties. Therefore, the claimed property is assumed to be inherent to the composition of the reference. See MPEP § 2112.01.

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<u>Claims 1-3 and 9</u> are rejected under 35 U.S.C. 102(b) as being anticipated by JP 62-043482 to Fumihide et al. (app. cited).

Fumihide et al. teach a working fluid containing water, diamond abrasive grains, and a water-soluble polymeric dispersant containing monomer having groups such as amino (Abstract).

With reference to the boiling point of the amine substance, even though the reference may not disclose the property recited in claim 2, the reference discloses a substantially identical composition, and identical compositions cannot have mutually exclusive properties. Therefore, the claimed property is assumed to be inherent to the composition of the reference. See MPEP § 2112.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PEGAH PARVINI whose telephone number is (571)272-2639. The examiner can normally be reached on Monday to Friday 8:00am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. P./ Examiner, Art Unit 1793 /Michael A Marcheschi/ Primary Examiner, Art Unit 1793